**Vijay Hatte | Data Scientist | Full Stack Developer**

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# Professional Summary

# Full Stack Developer & Data Scientist with hands-on experience building production-grade backend systems and AI applications using Django, DRF, React, and PyTorch. Experienced in RESTful API design, microservices, CI/CD, and explainable AI (SHAP, LIME). Delivered features for Vettly.ai and led multimodal explainability work in MAIA. Seeking a full-stack role combining backend engineering and ML integration.

# Education

## Savitribai Phule Pune University (ISBM College of Engineering, Pune)

* + B. E in Artificial Intelligence & Data Science (CGPA: 8.29)  **Jan 2022 – Jun 2025**

# Technical Skills

* **Languages:** Python, C++, JavaScript, SQL
* **Frameworks/Libs:** Django, Django REST Framework, React.js, PyTorch, BLIP-2, ResNet18
* **DevOps & Infra:** Docker, CI/CD, Redis, PostgreSQL, MySQL
* **AI / ML:** YOLO, transfer learning, LLMs, SHAP, LIME, Grad-CAM
* **Tools:** Git, GitHub, Power BI, Pandas, NumPy, Matplotlib, Excel
* **Concepts:** REST APIs, Microservices, Model deployment, E2E testing, DSA

# Internship

**Software Developer Intern — Humancloud Feb 2025 – Jun 2025**

Tech Stack: Django, DRF, React.js, MySQL, Git

* Implemented scalable Django REST APIs to support Vettly.ai evaluation workflows used by internal stakeholders.
* Built React evaluation dashboard (pie charts + filters) to visualize assessment scores for HR/admin, adopted by 50+ internal users.
* Developed backend logic to securely redirect users to evaluation pages and enforce role-based access, reducing manual follow-ups by 40%.

# Project Work

**KrishiGPT : Jun 2025 – Sep 2025**

* Architected and deployed KrishiGPT (React + Django) — an end-to-end platform for crop disease detection and farmer assistance using retrieval-augmented LLMs and Bark TTS.
* Built image-based disease detector with PyTorch (transfer learning on YOLO backbone) and productionized inference as a microservice with Celery + Redis; achieved 88–92% validation accuracy and average inference latency of ~40 ms.
* Containerized services and implemented CI/CD pipelines for reproducible demos and faster deployment cycles.

**Task Management Tool : Feb 2025 – Jun 2025**

* Designed a microservices-based task management system (User, Task, Search, Comment services) using Django REST APIs and React front end to support role-based access and real-time updates.
* Integrated PostgreSQL across services and implemented real-time notifications and filtering, increasing team productivity and communication by 30%.

**MAIA – Multimodal Automated Interpretability Agent : Sep 2024 – Dec 2024**

* Developed a multimodal explainability platform combining ResNet18, BLIP-2, and Pegasus-XSum to interpret image/text inputs.
* Implemented LIME, SHAP, and Grad-CAM visualisations and a custom Neuron Analyzer for activation visualization; refined classifiers to improve model accuracy by 12%.

# Certificates

* IBM Data Science 101
* Microsoft Azure Fundamentals **Feb 2024**